

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/001406

A. CLASSIFICATION OF SUBJECT MATTER

According to International Patent Classification (IPC) or to both national classification and IPC

E02D-29/02

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC E02D-29/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

IPC E02D-17/19, 17/20 and E02B-03/06; CPC 61/51; and US 405/262, 284, 285 and 286

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)

Canadian Patent Database
Delphion

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5531547 (Shimada) July 2, 1996, column 3; line 32 to column 4, line 5, column 4, lines 22 - 28 and 36-40, and column 5, lines 65-67.	1, 2, 7, 8, 10
X	US 6595726 (Egan et al.) July 22, 2003, column 3, lines 24-34 and 41-56, and column 4, lines 6-16, 39-43 and 51-53.	1, 7, 8
P, X	US 6764252 (Banting) July 20, 2004, column 1, lines 33-47, column 2, lines 32-53, column 3, lines 24-27 and 49-67, and column 4, lines 3-9.	1, 8
A	JP 04080432 A2 (Koji) March 13, 1992	
A	JP 07173845 A2 (Hideo) July 7, 1995	

Further documents are listed in the continuation of Box C.

Patent family members are listed in annex.

* Special categories of cited documents :	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international-type search

19 November 2004 (19-11-2004)

Date of mailing of the international-type search report

26 November 2004 (26-11-2004)

Name and mailing address of the ISA/
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Information on patent family members

International application No.
PCT/CA2004/001406

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
US5531547	02-07-1996	CN1101960 A	26-04-1995
		GB2283038 A	26-04-1995
		JP2545197B2 B2	16-10-1996
		KR172973 B1	18-02-1999
		SG50635 A1	20-07-1998
		TW403095Y Y	21-08-2000
		US5531547 A	02-07-1996
US6595726	22-07-2003	NONE	
US6764252	20-07-2004	NONE	